IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

10/642,407

Applicants

John W. SIMMONS, et al.

Filed:

August 15, 2003

Title:

Polyimide blends for gas separation membranes

TC/A.U.

1724

Examiner:

Unknown

Docket No.:

Serie 6121

Customer No.:

000040582

INFORMATION DISCLOSURE STATEMENT FROM FOREIGN SEARCH REPORT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. §1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Attached is a completed PTO form 1449 citing references submitted for consideration during examination of the above referenced patent application. Copies of the non-US patent references cited therein are also enclosed. It is respectfully requested that an Examiner-initialed copy of this form be returned to the undersigned.

Under 37 C.F.R. 1.97(e)(1), I hereby certify that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. 1.56 (c) not more than three months prior to the filing of this statement.

No fee is due at this time in accordance with 37 C.F.R. § 1.97. However, the Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 01-1375. This paper is submitted in duplicate.

Respectfully submitted,

Linda K. Russell, Registration No. 34,918

Date: March 18, 2005

Air Liquide

2700 Post Oak Boulevard, Suite 1800

Houston, Texas 77056

(713) 624-8956

CERTIFICATE OF MAILING UNDER 37 CFR 1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22343-1450, on this 18th day of March, 2005.

Diana Guzmar

``				ATTY. DOCKET NO. Serie 6121		SERIAL NO. 10/642,407				
INFORMATION BUSINESSARY) (USE SEVERAL SHEET) IF NECESSARY)					APPLICANT(S) John W. SIMMONS, et al.					
	•	USE SEVERAL SHEET IN	CESSAR I)		FILING DATE		GROUP			
MAR 2 1 2005					August 15, 2	2003	1724			
			U.S. PA	TENT DO	OCUMENTS					
Examiner Initial		Decument Number	Date		Name	Class	Subclass	Filing I	Date	
	A1	US 4-705-540	11/10/1997	Hayes						
	A2	US 5 635 067	06/03/1997	Mache	eras			<u></u>		
	ļ			ļ			<u> </u>			
	<u> </u>	<u> </u>		ļ				 		
· 	 			 				+		
	 			 			 	+		
	 	-	+	 			 	+		
	 			-			 	+		
	_		+	 			 	+		
	<u> </u>						<u> </u>			
	FOREIGN PATENT DOCUMENTS Translation								lation	
· · · · · · · · · · · · · · · · · · ·	<u> </u>	Document Number	Date	Country		Class	Subclass	Yes	No	
	 	ļ		ļ				 '		
	ļ		<u> </u>	 			 		 	
	ļ		-	 			 	 	\longrightarrow	
				 				+	\vdash	
	 		+	 	W			+	$\vdash \vdash \vdash$	
	+			 			+	+	\vdash	
	+			 			 	-		
		OTHER			mid D.A. D.Air					
	Τ.,		DOCUMENTS (Inclu			nt Pages, Etc.)			$\overline{}$	
	C1	International Se	International Search Report for PCT/IB03/04769							
			Bos A., et al.: "Suppression of gas separation membrane plasticization by homogeneous							
	C2	1 1	polymer blending", AIChE Journal, New York, US, vol. 47, no. 5, May 2001, pp. 1088-							
	ļ'	1093								
		Barsema J. N., et al.: "Preparation and characterization of highly selective dense and								
	C3		hollow fiber asymmetric membranes based on BTDA-TDI/MDI co-polyimide", Journal of Membrane Science, Elsevier Scientific Publ. Co., Amsterdam, NL, vol. 216, no. 1-2,							
		May 1, 2003, pp. 195-205			ic rubi. Co., Amsterdam, N.L., voi. 210, no. 1-2,					
				Da	Date Considered					
PVAMINEI	D. Initia	il if reference considered, whethe		formana	····ish MADED 600: Dr	ou line through a	sitation if not in confe	rmance and	not	
		copy of this form with next com			; WILLIMFER 005, Die	aw iine unough e	nanon n not m come	Illiance and	liot	

Form PTO-A820 (also form PTO-1449) PO9C/REV 03

Patent and Trademark Office - US Dept.